Available online at www.sciencedirect.com

ScienceDirect

Electronic Notes in Theoretical Computer Science 272 (2011) 1–2

Electronic Notes in Theoretical Computer Science

www.elsevier.com/locate/entcs

Preface

This volume contains the papers accepted for presentation at the 1st International Workshop on Static Analysis and Systems Biology (SASB 2010) which took place in Perpignan, France, on September the 13th, 2010.

A lot of biological models suffer from a high combinatorial complexity. Many methods have been proposed to break down this combinatorial complexity. Some of these methods are informal and are validated experimentally. By contrast, static analysis-based scalable formal methods increase the level of confidence by providing formal characterization of what is computed. Being automatic, easily reusable, and offering formal soundness criteria, static analyses can help designing models, testing models with respect to experimental data, and predicting the behavior of the modeled system. The goal of SASB is to promote discussions and collaborations between biologists (modelers), computer scientists (in static analysis) and applied-mathematicians around the design and the use of static analysis methods for biological models.

This year, three papers have been selected according to a rigorous refereeing process.

Organization

Program Committee

Arndt Benecke	Institut des Hautes Études Scientifiques, France
Jehoshua Bruck	California Institute of Technology, USA
Luca Cardelli	Microsoft Research, Cambridge, UK
Eric Deeds	Harvard Medical School, USA
Jérôme Feret (chair)	École Normale Supérieure & INRIA, France
Thomas Henzinger	Institute of Science and Technology, Austria
William Hlavacek	Los Alamos National Laboratory, USA

doi:10.1016/j.entcs.2011.04.001

Heinz Koeppl	École Polytechnique Fédérale de Lausanne, Switzerland
Marta Kwiatkowska	Oxford University, UK
Andre Levchenko (chair)	Institute for Computational Medecine, Johns Hopkins University, USA
Gordon Plotkin	University of Edinburgh, UK
Ty Thomson	Genstruct Inc., USA

Referees

Ferdinanda Camporesi	École Normale Supérieure, France & Università di Bologna, Italy
Anmol Tomar	Institute of Science and Technology, Austria

Acknowledgements

We are very grateful to the SAS organizers Radhia Cousot and Matthieu Martel, for making this workshop possible. We also would like to thank the Program Committee and the external reviewers. We thank as well our contributing authors and our invited speakers Andre Levchenko, Ovidiu Radulescu, and Glynn Winskel. Our thanks also go to Andrei Voronkov for the EasyChair system (`www.easychair.org`). Élodie-Jane Sims handled the SASB web-site, using the original design by Albertine Martel. Justine Rabat helped with the local organisation. Finally, we would like to thank the Université de Perpignan Via domitia (UPVD), the École Normale Supérieure (ÉNS), the Institut National de Recherche en Informatique et en Automatique (INRIA), the Centre National de la Recherche Scientifique (CNRS), Microsoft Reseach (MSR) for sponsoring SAS and SASB. SASB was also supported by the ANR-Chair of Excellence AbstractCell.

The second international workshop on Static Analysis and Systems Biology (SASB 2011) will be held in Venice on September 13, 2011 as a satellite event to the 18th Static Analysis Symposium.

Jérôme Feret
Andre Levchenko
SASB Program Chairs